

**REMARKS/ARGUMENTS**

In light of the above amendments and remarks to follow, reconsideration and allowance of this application are respectfully requested.

Claims 1, 3, 4, and 6 are pending in this application.

Claims 1, 3, 4, and 6 were rejected under 35 U.S.C. §103(a) as being unpatentable over Codilian (U.S. Patent 6,204,988) in view of Smith (U.S. Patent 5,331,299) and Diepstraten (U.S. Patent 5,602,896).

First, the present claims recite "phase shifting means ... for shifting a phase of the input signal." (Claim 1; Claim 4 contains similar limitations) The Examiner relies upon Codilian at column 2, lines 18-55 to meet the present phase shifting means. However, Codilian does not explicitly recite a phase shifter, but rather discusses whether the system has the desired phase margin. Presumably, this could be done with a phase compensator as in the prior art distinguished in the present specification (see prior art phase comparator 3 in Fig. 1, as opposed to the recited phase shifter 40 in Figure 3).

Second, the present claims recite "a multiplier for multiplying the phase-shifted input signal from the phase shifting means and the component signal from the band-pass filter." (Claim 1; Claim 4 contains similar limitations) The Examiner relies upon Smith's synchronous demodulator 38 at column 4, lines 54-57 to meet the present multiplier. However, Smith's demodulator has  $V_{EAC}$  from an AGC divider as one input. By contrast, the present multiplier uses the component signal from the band-pass filter; which is certainly different from an AGC divider output.

Moreover, it is an objective of the present invention to adjust the gain without having to calculate a crossover frequency as in prior art systems. (Specification page 3)

Whereas, Codilian requires the crossover frequency and Smith uses a notch filter center frequency instead.

Accordingly, for at least these reasons, Codilian, Smith and Diepstraten fail to obviate the present invention and the rejected claims should now be allowed.

In view of the above, each of the presently pending claims in this application is believed to be in immediate condition for allowance. Accordingly, the Examiner is respectfully requested to withdraw the outstanding rejection of the claims and to pass this application to issue.

If, however, for any reason the Examiner does not believe that such action can be taken at this time, it is respectfully requested that he/she telephone applicant's attorney at (908) 654-5000 in order to overcome any additional objections which he might have.

If there are any additional charges in connection with this requested amendment, the Examiner is authorized to charge Deposit Account No. 12-1095.

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Respectfully submitted,

By 

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